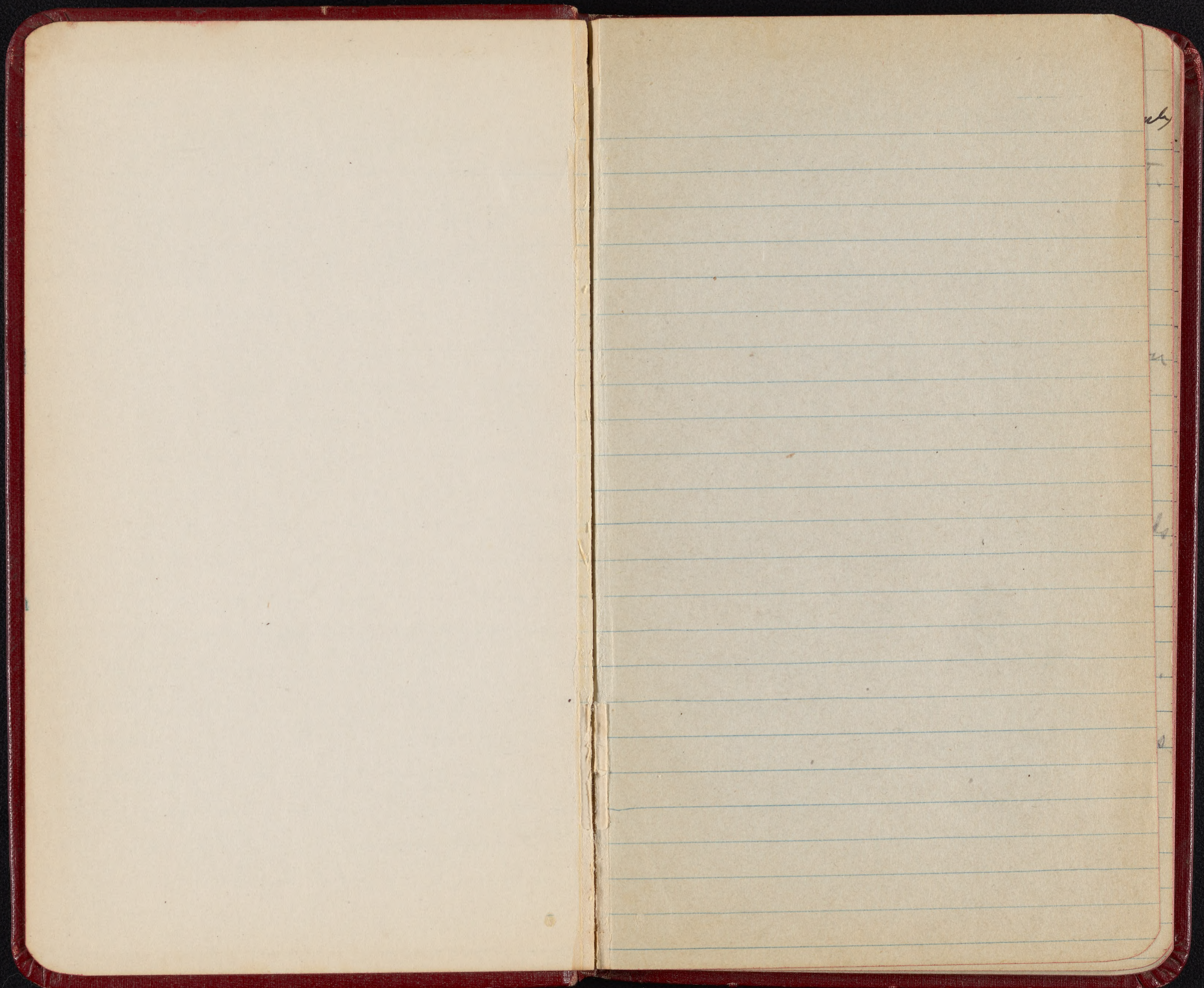


Property of:
Frances E. Carnes
1657 - 31st Street, N.W.
Washington, D.C.

CARNES, FRANCES E. 1938 - 1941.
Grasses, cult. & eastern U. S., Canada

Field notes Nos. 1 - 184.



Beltsville ; May 12, 1938

1 *Elymus pseudo-agropyron* (Griseb.) Trin

Beltsville - Exp. Plot

F.P.I. 107,717

Manchuria

erect, basal leaves short

2 *Elymus pseudo-agropyron*

Beltsville - Exp. Plot

F.P.I. 107669

Manchuria

erect

3 *Alopecurus myosuroides* Huds.

Beltsville - Exp. Plot

F.P.I. 117319

Turkey

culms spreading at base.
clumps.

4 *Koeleria ^{spheodes (Vill.) Pers} borythra*

Beltsville Exp. Plot

P.E.I. 119654

Turkey

111, 302 = *Festuca elatior*

111, 217 } *Calamagrostis*
111, 216 } *epigeios*
111, 215 }

5 *Poa bonariensis* (Lam) Kunth
Beltsville - Exp. Plot
F.P.I. 92340
Argentina
in large, dense, erect clumps.
no rhizomes.

June 6 *Calamagrostis epigeios* (L.) Roth
1, 1938 (with rhizomes)
Beltsville, Exp. Plot.
F.P.I. # 111, 216
Manchuria.

7 *Melica altissima* L.
dehaeniate
small clump about 12 in. high
Beltsville, Exp. Plot
F.P.I. # 111, 301
tall plants in row are
Festuca elatior

8 *Poa nemoralis* L. ok
no rhizomes.
Beltsville, Exp. Plot.
F.P.I. # 101, 466
no source

9 *Poa nemoralis*
plant erect
Beltsville - Exp Plot
111,320 Rumania

10 *Phalaris* ^{erect} ~~*coerulea*~~ ^{Desf} *coerulea*
Beltsville, Exp Plot
111,994 Australia

ok 11 *Phleum arenarium* ^d
119,671 Beltsville
Turkey

✓ 12 *Festuca rubra*
13706 ("stolonifera")
Beltsville
Germany

✓ 13 *Festuca rubra* L ^{ok}
Beltsville # 89,828
Spain

14 *Festuca* ^{divinacula L.} ~~*rubra*~~
Beltsville # 108,060
topheavy with panicles
drooping; no reliques
Turkistan
June 9 - reddish

15 *Festuca* " ^{ovinal} ~~*communis*~~ ^{stall}
dense tuft, erect
Beltsville # 114,247

India
[June 9, 1938 - small & bluish
plant glaucous.
obviously 2 different things under

16 *Festuca* ~~*communis*~~ [←]
dense tuft basal foliage spreading
with reliques
Beltsville # 114,249

India
June 9, 1938 *F. rubra* var *laevigata*
adult North Korea

17

Festuca ovina L.
erect - Beltsville
F.P.I. # 115,357 mixture?
Leningrad *glaucous*

18

Festuca rubra L.
erect; Beltsville
F.P.I. # 89828
rhizomes wanting
dense tuft.
see #13 - same?

19

"*Ferula*" sp.
drooping heads
Beltsville #114,245
India
= *Elymus pibiricus* L.
~~*dahuricus* Turcz~~

June 9, 1938

20

Elymus pseudo-agropyron Trin.
erect basal leaves short
same plot as #1 rhizomes
Beltsville - #107,717
blades glaucous Manchuria

21

Calamagrostis epigeios Roth
same plot as #6
erect, vigorous grower
F.P.I. 111,215
Manchuria

22

Poa compressa L.
#109,560 Beltsville
Tosya, Turkey
erect, panicles light-green -
slightly nodding - *Agrostis*
mixed in - mostly *Agrostis*.

23

"*Poa nemoralis*"
#21,818 is *Poa compressa* L.
Beltsville, no source given

"*P. nemoralis*" L. #110,581 one *nemoralis*
lost in the row - but
Poa pratensis & *Agrostis* sp.

24

25

Poa nemoralis L
#111,319 tuft, erect
red base - Beltsville

26

Bromus macrostachys ^{Desf}
#111,275 no source
⊙ *Bromus commutatus*
mixed in.

27

Bromus erectus Huds
#111,279 no source
dense tufts, erect,
slightly nodding at summit
no rhizomes. Beltsville.

28

Bromus ^{*erectus* Huds} ~~*variegatus*~~ No
#115,341 Leningrad
overmature - *B. macrostachys*
mixed in

29

Bromus macrostachys ^{oxypodon Schrenk}
#114,221 India
⊙ panicles nodding
B. japonicus Thunb mixed in

30

Hordeum bulbosum L.
#78,781 Russia
culms erect, spikes slightly
nodding

Bromus japonicus Thunb ^{depauperate}
#115,341 Leningrad
⊙ erect, panicles nodding

32

Bromus inermis Luyk ^{approaching var *aristatus* Schum.}
#115,344 Leningrad
Beltsville,
blades broad + drooping
has rhizomes

#95,581 Canada =
Poa pratensis

#111,319 no source =
first clump = *Poa pratensis*
2nd clump = *Poa palustris*
3rd + 4th alike = #25 in
this book.

#114,222 - "*Bromus ramosus*"
India - only
Phleum pratense in row

#114,220 *Bromus*
gracillimus - India
no *Bromus* in row
one plant of *Poa pratensis*

#78,781 *Hordeum bulbosum* L.

#80,815 just one spike
- not taken

ok
Phleum subulatum (Savi) ³³
#119,675 Turkey
Beltsville

Festuca duriviscula L. 34
#108,060 Turkestan,
Fruze foliage rough
reddish, erect, panicles
nodding, dense tufts of #14

see #44
Phalaris paradoxa L. ok
#111,313 Roumania 35
tall plants without deformed spikes +
short plants with deformed spikes in same clump
(*P. coerulescens* Desf. V with bulbous nodes
in see 44)

Avena bromoides Gouan. ok 36

#89,813 no source
erect, panicle slightly
nodding

37

"*Arrhenatherum elatius* (L.) Merr. & Koch
Arrhenatherum orizanthum
 F.C. # 13,748 California

Z. matrella (L.) Merr.

Zoysia "japonica Steud." 41
 F.P.I. # 89, 123
 very little in row

38

ok 38 *Brachypodium pinnatum* (L.) Beauv.
 F.P.I. # 18, 267 no source
 erect, panicle erect, stiff

ok *Brachypodium mucronatum* Willk. 42
 very dense growth
 foliage drooping
 # 89, 817 Beltsville

39

ok 39 *Zoysia matrella* (L.) Merr.
 F.C. # 13,521 no source

? *Brachypodium pinnatum* Beauv. 43
 # 106,020 panicles nodding
 no source, dense tufts
 Beltsville foliage drooping

40

= *Z. matrella* (L.) Merr. Willd.
Zoysia pruriens
 F.P.I. # 88, 776
 no source

Phalaris caerulea Desf. 44
 see no 35
 " *Phalaris paradoxa* "
 111, 313
 mixed with - has bulbs

45

Briza humilis Bieb.
speciosa
 D tufted, glaucous
 PEI # 119,627 Turkey

46

Agropyron elongatum
 head erect, very glaucous
 # 98,526 U.S.S.R.
 no rhizomes

47

Beckmannia cruciformis
 erect 2
 # 104,673

48

Agrostis scabriglumis
 lively green, slender rhizomes
 # 89,806

49

Agrostis castellana var.
rhizomes copiose mutica
 # 89884 Spain

Agrostis "falcata" (near end of 5th plant row)
 decumbent at base, rhizomes
 # 111,252

50

Agrostis alba L.
 first plant in row
 # 111,252
 abundant rhizomes

51

Agrostis alba
 mass of foliage for few
 flowering culms, slender stolons
 # 115,328

52

Agrostis interrupta L. 53
~~*spica venti*~~
O # 119,610
Turkey

Agrostis stolonifera L. 54
~~*sp.*~~
111,253 no source
dense, lots of foliage
slender stolons

Poa nemoralis L. 55
109,560 A short rhizomes
slightly bent at base
Tosya, Turkey

56
June 24, 1938 *Poa compressa* L.
spreading at base
light gray soil
5 mi south of Ithaca, N.Y.

57

June 25 *Festuca elatior* L.
erect, panicles nodding
Roadside near Montezuma, N.Y.

58

Calamagrostis canadensis
(Michx.) Beauv.
erect, edge of ditch,
low ground - drained marsh
2 mi. W of Montezuma, N.Y.

59

Glyceria borealis (Nash) Batchelder
growing in sluggish stream.
panicle branches erect, narrow
2 mi east of Belleville, Ont.
June 26

60

Glyceria grandis S. Wats.
panicles open, brownish. Sluggish
stream. 2 mi east of Belleville,
Ont.

June 29

Dryopsis racemosa (J. E. Smith) ⁶¹
Richer
base of King's Mt., Que.
deep woods, along path
erect.

18 mi. N. of Ottawa Canada

62

Danthonia spicata (L.) Beauv.
Near base of King's Mt. Woods along
path. Erect

63

Poa compressa L.
Cf. #62. Among rocks.

64

cf #63 *Danthonia spicata* (L.) Beauv.

65 *Trisetum spicatum* (L.) Richt.
Open slope. King's Mt.

66 *Agropyron pauciflorum* (Schwein.) Hitchc.
Open slope. King's Mt.

67 *Trisetum spicatum* (L.) Richt.
Dense tuft, erect. Open slope
King's Mt.

68 *Poa compressa* L.
Along rocky path. King's Mt.

69 *Danthonia spicata* (L.) Beauv.
Small tuft erect, Rocky path
King's Mt.

70 *Deschampsia flexuosa* (L.) Trin.
Open nodding panicle. Very
pretty. At base of tree along woody
path. King's Mt.

71 *Panicum linearifolium* Scribn.
Open woods along slope. King's
Mt., Quebec

72 *Brachyelytrum erectum* (Schreb.) Beauv.
Top of King's Mt. fairly dense woods.
Very rich soil.

mosses.

72a

73a

73 *Sphenopholis intermedia*
(Rydb.) Rydb.
Dense, damp woods. Top of
King's Mt.

74 *Milium effusum* L.
Dense soft, light green. Thick
woods. Top of King's Mt.

75 *Poa laevigata* Hitchc.
edge of wood, top of
King's Mountain

76 *Phleum pratense* L.
Rocky path, fairly open. King's
Mt.

Glyceria striata (Lam.) Hitchc. 77
Near shore of lake. 1/2 way up
King's Mt.

Poa compressa L. 78
Open upland pasture. 3 mi
west of Wakefield, Que.

Glyceria striata (Lam.) Hitchc. 79
Stream bank 3 mi west of
Wakefield, Que.

Glyceria grandis S. Wats. 80
Wet ditch along road. 6 mi west
of Wakefield, Que.

81 *Calamagrostis canadensis*
Boggy ground along
roadside, 7 mi west of Wakefield,
Que

82 *Glyceria canadensis* (Michx.) Trin.
Boggy ground, lake shore, 12 mi
west of Wakefield, Que.

83 *Festuca obtusa* Spreng.
large, open, damp woods -
rich soil. decumbent at base
panicle drooping.
Brookfield, Vt., July 4th

84 ~~July 6~~
Bromus tectorum L.
Provincetown, Mass along
roadside, fairly common
(discarded)

85 *Panicum depauperatum* Kunth.
Large clump along roadside.
Provincetown, Mass.

86 *Puccinellia maritima* (Huds.) Parl.
salt marsh near road.
Provincetown, Mass.
very abundant. slightly spreading
at base. Panicles opening when
mature

87 *Puccinellia maritima* (Huds.) Parl.
habitat as in #86.

~~July 7~~
88 *Glyceria acutiflora* Torr.
In water at edge of lake. Conn.
Coll. New London, Conn

89

Glyceria pallida (Torr.)
as for #88 Trim.

90

Holcus lanatus L.
Edge of pond at road N.S. #1,
East Lyme, Conn. Not very
abundant

91

Festuca rubra L.
Panicle drooping. Habitat
as in #90.

92

Festuca elatior L.
Same as #91

93

Deschampsia caespitosa (L.) Beauv.
Panicle open, spreading, tufted.
Habitat as in #90

[discarded]

94

Panicum clandestinum L.
Habitat as in #90

95

Spartina patens (Ait.) Muhl.
Tidal flats, Blackhall
River, near Old Lyme, Conn.

96

Aug. 24
Panicum scoparium Lam.
along Penn. R.R. tracks
just off Kenilworth Ave.
(about 500 yds. below
underpass), D.C.

Andropogon ellipticus Chapm. 97
along Penn. R.R. tracks
just off Reinhardt Ave.
D.C.

Panicum virgatum L. 98
same habitat as #97

Paspalum setaceum Michx. 99
same as #97

Digitaria sanguinalis (L.) Scop. 100
same as #97
approaching var. *ciliata*

Aug. 25

101 *Digitaria ischaemum*
roadside near Beltsville,
Md.

Aug. 25

102 *Dryzopsis aequiglumis*
F.P.I. # 114,265
Beltsville

103 *Spodiopogon sibiricus* Trin.
F.P.I. # 90,274
Beltsville

104 *Cymbopogon refractus*
(R.Br.) A. Camus
F.P.I. # 183,781
Beltsville

dense clump, culms leaning,
inflorescence spicy -
aromatic to taste

Cymbopogon refractus 105
F.P.I. # 83,781
Beltsville,

Astrebla lappacea 106
(Lindl.) Domin.
P.E.I. # 124,891
Beltsville.

Digitaria priantha Steud. 107
P.E.I. # 125,112
Beltsville

Panicum 108
Natural Bridge, Va.
Banks along stream.

109

Digitaria

Natural Bridge, Va
Bank along stream

110

Andropogon ?

Norris Freeway & Paceson Valley Rd
ca 12 mi from Norris Dam, Tenn.
Profusely rambling, along stream at
roadside

111

Poa

grown at Arlington Farm
seed from Oregon, sent in
as *Poa amplaxifolia* Torr.

112

Poa

same as 111

Poa

113

same as 111

June 26, 1941

Panicum tangetorum ? 114

gravel pit along road
just south of Baltimore

Panicum huachucae

115

edge of woods along road
just south of Baltimore

Panicum oricola

116

waste place on bank above road
about 10 mi. north of Baltimore
Route #1

Silvestri 7106

117 *Panicum ashei*
same as 116

121

118 *Panicum meridionale*
same

122

119 *Panicum dichotomum*
same

123

120 just above Oxford Pa. ↓

124

125

Panicum

126

near Centerville, Del.

Panicum

127

near Wilmington, Del.

Paspalum

128

roadside south of
Camden

Silvens # 7107

129 *Panicum*
same as 128

130 *Panicum boreale*?
edge of woods east of
Camden on route 40 about
47 mi from Manahawke

131 *Panicum*
same

132 *Panicum*
same

Panicum
roadside - sandy gravel
same

Panicum
same

Panicum pseudo?
same as 130

Stipa
same

137 *Panicum*
same

138 *Triodia flava*
Route 40 - Road to
Manahawkin

139 *Panicum*
(*Eupanicum* group)
same

140 *Panicum* *pseudon*
same

Panicum *laevigatum* 141
same

Panicum 142

Panicum *communis* 143
same

June 27. | *Columbiana* group 144
Panicum
along road in open sandy
place
about 5 mi. south of Manahawkin
N.J.

Panicum turgidum 7 145

same
(color light)
Silver # 7/18

Panicum 146

Panicum 147

Panicum 148

149 *Panicum*

150 *Panicum*

151 *Panicum*

152 *Panicum*

Panicum

153

Panicum

154

Panicum

Staffordville

155

Panicum

same

156

157 *Panicum*

158 *Panicum*

159 *Panicum*
a little south of Staffordville

160 *Panicum*

Panicum

161

Panicum

162

just south of New Ghetana
along body -

(leaves have a soft rubbery appearance)

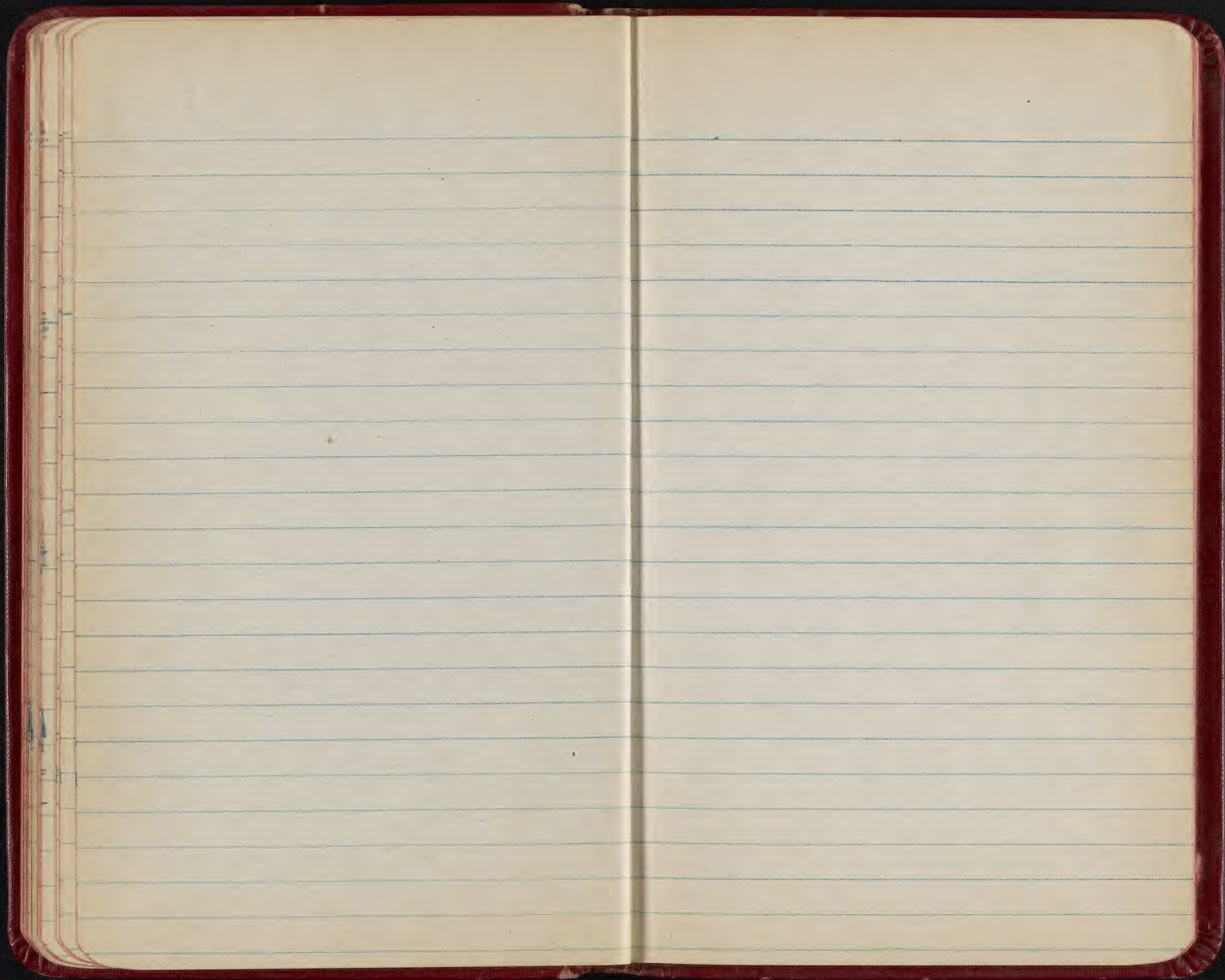
Panicum albanense? 163

decumbent spreading
in a mat
bluish green

Silvius # 7123

Panicum

164



165

Panicum

166

*Panicum matsum.*along ~~road~~ same road a
little further south.along edge of woods in partial
shade and near a damp ditch.

167

Panicum

same

168

Bromus japonicus

Cape May Court House

partial shade along road.

Panicum

169

Panicum

170

Panicum

171

Panicum

172

173

Panicum

174

Panicum

175

Composite

176

Panicum

Roadside, damp
between Mayo Landing &
Egg Harbor, N.J.

Panicum

177

Panicum

178

Red-leafed plant

179

Lycopodium

180

181 *Panicum clutei*
Egg Harbor

182 *Panicum*
NE
5 mi. from Egg Harbor

183 *Panicum*

184 *Panicum*

Panicum

185

186

187

188

189

190

191

192

193

194

195

196

445

449

446

450

447

451

448

452

445

446

447

448

1798 1/2

